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10/811,421	03/26/2004	Fusao Ishiguchi	04536.034001	2620
22511 7590 04/22/2009 OSHA LIANG L.L.P. TWO HOUSTON CENTER			EXAMINER	
			HAILU, TESHOME	
909 FANNIN, HOUSTON, T			ART UNIT	PAPER NUMBER
			2434	
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# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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docketing@oshaliang.com buta@oshaliang.com

## Application No. Applicant(s) 10/811.421 ISHIGUCHI, FUSAO Office Action Summary Examiner Art Unit TESHOME HAILU 2434 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 30 January 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1-8 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patient Drawing Review (PTO-948)

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### DETAILED ACTION

 This office action is in reply to an amendment filed on January 30, 2009. Claims 1-8 have been amended.

2. Claims 1-8 are pending.

## Response to Amendment

- Applicant's arguments filed on August January 30, 2009, with respect to 35 USC 103(a) rejections of claims 1-8 have been fully considered but they are not persuasive.
- 4. Applicant argues that when each time the prior art, Doiron (US 5,481,610), access the key data, the starting location of the key block is changed according to an equation. In contrast the present invention locates the key data, and random data in a prescribed location, not moving it during each access of the key loader equipment. Examiner agrees with applicant argument. However, no where in the claim language, applicant mentioned that the stored key or data is not moving. The claim language only mentioned about the "prescribed location" for storing the information at the first time. Therefore, examiner disagrees with the applicant argument and advice to include something in the claim language that teaches the stored information is stable (not moving).
- 5. Applicant argues that Doiron relates to a single key table that can contain multiple key banks and surrounding it with random data. In contrast, the present invention permits writing key data in multiple location in the flash memory and surrounding each key data with random data. However, no where in the claim language, applicant claimed storing the key data in multiple locations. The claim language only mentioned about the key data is recorded in a prescribed address in an unused specific area (not multiple locations).
- 6. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e. see above) are not recited in the rejected claim(s). Although the claims are

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interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*. 988 F.2d 1181. 26 USPQ2d 1057 (Fed. Cir. 1993).

#### Claim Rejections - 35 USC § 103

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A penetr may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Doiron et al (US 5,481,610) in view of Nakano (US Pub. No. 2003/0182565).

As per claim 1 Doiron discloses:

A digital video disc device, comprising: a rewritable flash memory of prescribed size in which key data associated with information on a digital video disc is recorded in advance in a prescribed address in an unused specific area; (abstract, line 1-6, a digital radio has standardized "key" storage for several different cryptosystems (DES, VGE, VGS, etc.). Cryptographic keys are stored in a table in non-volatile memory such as EEPROM). Also see fig. 2.

Wherein random data is written in all of the unused area around an area where said key data is recorded in said specific area of said flash memory, (column 4, line 18-37, a digital radio has standardized "key" storage for several different cryptosystems (DES, VGE, VGS, etc.). Cryptographic keys are stored in a table in non-volatile memory such as EEPROM. As a result, the stored key itself looks like the stored random data and it would be hard for an attacker to identify the cryptographic keys from the random data). Also see the table in fig.3

Means for accessing the information on said digital video disc using said key data read from said prescribed address in said flash memory; (column 1, line 5-13, the invention relates to radio frequency Application/Control Number: 10/811,421

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(RF) communications systems, and more particularly to digital radios having a "secure" mode that encrypts and decrypts messages. Still more particularly, the present invention relates to techniques for securely loading and storing protographic key information within a mobile or portable radio transceiver).

Doiron does not explicitly discloses, the information on a digital video disk. However, in the same field of endeavor, Nakano teach this limitation as, (page, paragraph 7, the DVD right protection system each DVD reproduction terminal for reproducing digital content recorded on a distributed DVD pre-stores a master key. The master key is determined by the manufacturer of the particular reproduction terminal. The reproduction terminal, which uses this master key in the decryption process, has a function of ultimately decrypting and reproducing the digital content recorded on the DVD).

Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention was made, to modify the teaching of Doiron and include the information on a digital video disk using the teaching of Nakano in order to substitute one method for the other to achieve the predictable result of securing information in electronic media using the key data stored in memory.

The key data is configured to be modified by a key data writing equipment. (Column 10, line 60-65, as cryptographic keys are loaded into the bank 86, the bit-mask byte 90 is updated to indicate which keys within the bank are valid).

Doiron does not explicitly disclose that the key data can be modified by key data writing equipment. However, in the same field of endeavor, Nakano teach this limitation as, (page, paragraph 113, the key setting system 104 has a key information storage unit 301, a key information generation unit 302, an invalid terminal designation unit 303, a key information updating unit 304, a decryption key determining unit 305, and an encryption key designation unit 306). Both the key information generation unit (writing equipment) and key information updating unit (modifying) are a part of key setting system (see fig. 3 of Nakano).

Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention was made, to modify the teaching of Doiron and include the limitation, "the key data can be modified by key data writing equipment", using the teaching of Nakano in order to make the key

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information valid by updating (modifying) with right and most up-to-date information (see paragraph 117 of Nakano).

Claims 5 and 8 are rejected under the same reason set forth in rejection of claim 1:

As per claim 2 Doiron in view of Nakano discloses:

The equipment for a digital video disc according to claim 1, wherein said key data is an encryption key for equipment for encrypting and recording the information on said digital video disc. (Column 8, line 1-33, the EEPROM 76 that stores a key table 78 containing cryptographic keys to be used for encrypting and decrypting purpose by encryptor/decryptor 74).

As per claims 3 in view of Nakano discloses:

The equipment for a digital video disc according to claim 2, wherein said key data is a decryption key for equipment for decrypting the information read from said digital video disc. (Column 8, line 1-33, the EEPROM 76 that stores a key table 78 containing cryptographic keys to be used for encrypting and decrypting purpose by encryptor/decryptor 74).

Claim 4 is rejected under the same reason set forth in rejection of claim 3:

As per claim 6 Doiron in view of Nakano discloses:

The method of recording prescribed information according to claim 5, wherein said memory is mounted on equipment for a digital video disc, (see the EEPROM on fig. 2).

Said prescribed information is key data associated with information on a digital video disc. (Column 9, line 33-52, "meaningful" data stored within table 78 includes a first byte random value 82, a kth byte random value 84, and at least one (and typically many) cryptographic keys stored in key banks residing within a cryptographic key block 86).

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As per claim 7 Doiron in view of Nakano discloses:

The method of recording prescribed information according to claim 5, wherein said prescribed information is a password. (Column 8, line 1-33, the EEPROM 76 that stores a key table 78 containing cryptographic keys to be used for encrypting and decrypting purpose by encryptor/decryptor 74).

#### Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TESHOME HAILU whose telephone number is (571)270-3159. The examiner can normally be reached on Mon-Fri 7:30a.m. to 5:00p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on (571) 272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Application/Control Number: 10/811,421 Page 7

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from

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1000.

/Teshome Hailu/

Examiner, Art Unit 2434

/Kambiz Zand/

Supervisory Patent Examiner, Art Unit 2434